MULTIMEDIA UNIVERSITY

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 1, 2019/2020

DEP5121 – ETHICS AND CYBERTECHNOLOGY

(For Diploma in IT students only)

22 October 2019
9:00 a.m. – 11:00 a.m.
(2 Hours)

INSTRUCTIONS TO STUDENT

1. This question paper consists of **4 pages.**
2. Answer **ALL** questions in **Section A** on the **OMR sheet.**
3. Answer **ALL** questions in **Section B** in the **Answer Booklet.**

Section A: 10 Multiple Choice Questions (10 marks)

*Instruction: Shade your answers on the **OMR sheet.***

1) What were the technological features and associated ethical issues in Phase 1 of the evolution of cybertechnology and cyberethics?
   A. Convergence of information and communication technologies with nanotechnology research raised concerns about 'bots' with decision-making capabilities.
   B. The Internet and World Wide Web raised concerns about free speech and anonymity.
   C. Computing machines and communication devices raised concerns about software piracy and computer crime.
   D. Large mainframe computers raised concerns about database privacy.

2) "Personally-based morality can cause major harm to others" is a logical flaw in which of the following moral discussion stoppers?
   A. Who am I to judge others?
   B. Ethics is simply a private matter.
   C. Morality is simply a matter for individual cultures to decide.
   D. People disagree on solutions to moral issues.

3) Which of the following describes virtue ethics?
   A. Focuses on contractual agreements between individuals through social contracts.
   B. Focuses on duty humans have to one another.
   C. Focuses on criteria having to do with character development of individuals and their acquisition of good character traits from kinds of habits they develop.
   D. Focuses on greatest happiness for greatest number of people.

4) *Occurs when one or more employees shed light on misconduct within organisation in the media.*

   The above statement describes _____.
   A. whistle blowing
   B. code of ethics
   C. employee loyalty
   D. accountability

5) What is informational privacy?
   A. Freedom from interference in one's choices and decisions.
   B. Freedom from intrusion into one's physical space.
   C. Control over flow of one's personal information, including transfer and exchange of that information.
   D. Control over flow of one's personal property, including transfer and exchange of that property.

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6) Obtaining and combining your medical and insurance record from two different databases in order to have specific information about you is known as _____.
   A. data cleansing
   B. data mining
   C. data matching
   D. data merging

7) Internet users who discuss issues about gender equality and animal rights is an example of _____.
   A. activism
   B. hacktivism
   C. cyberterrorism
   D. cyberwarfare

8) Which philosophical theory argues that property rights are not natural rights and are granted to individuals because they result in greater social utility?
   A. Labor
   B. Duty
   C. Personality
   D. Utilitarian

9) Posting comments about a minister owning fake degree qualifications is an example of _____.
   A. slander
   B. libel
   C. spam
   D. obscene speech

10) Which of the following describes digital divide?
   A. "Just distribution" of primary goods and resources in populations.
   B. Job displacement affected by automation and measured in terms of net result of jobs gained and lost.
   C. The disparity between those with access to Internet technology and those who do not.
   D. A situation when two or more countries agree on terms that help them trade with each other.

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Section B: 3 Structured Questions (30 marks)

*Instruction: Write your answers in the **Answer Booklet**.*

Question 1

a) *"News reported a case where a 13-year-old was having suicidal thoughts after being called nasty names on Facebook. The girl did not have the maturity to deal with the comments and developed depression. In a similar case, a 20-year-old student jumped from the 17th floor in Georgetown, Penang after getting negative remarks like 'you're worthless', 'you're trash', 'you're good for nothing'."*

i. What is cyberethics? Describe the type of cyberethics issue that relates to the above case. (2 marks)

ii. Explain **THREE** new unique ethical issues introduced by cybertechnology in the above case. (3 marks)

b) Briefly describe Gert's **FOUR** features of a moral system. (2 marks)

c) Consider the following ethical dilemma:

When backup files were required to find out what happened in an IT investigation, an IT specialist was instructed by those who were being investigated to report that those files were corrupted, thus unavailable. If he agrees as instructed, they would pay him some money. After heavy consideration, he decided to accept the offer.

i. Based on IEEE and ACM *professional code of ethics*, explain if the decision of the IT specialist is ethical. (2 marks)

ii. Based on *ethical theory*, explain if the action of the IT specialist is ethical. (1 mark)

[TOTAL 10 MARKS]

Question 2

a) What are cookies? Describe **TWO** arguments against cookies and **TWO** reasons to defend the use of cookies. (3 marks)

b) Describe **TWO** reasons for and **TWO** reasons against hacktivism. (4 marks)

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c) Describe an example for each of the following categories of cybercrime.

i. Cyberpiracy
ii. Cybertrespass
iii. Cybervandalism

(3 marks)

[TOTAL 10 MARKS]

Question 3

a) What is intellectual property? Explain **THREE** differences between *copyright law* and *patent* protection schemes. (4 marks)

b) What is censorship in cyberspace? Describe *censorship by suppression* and *censorship by deterrence*. (3 marks)

c) Describe **THREE** ways how cybertechnology and the Internet facilitate democracy. (3 marks)

[TOTAL 10 MARKS]

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